

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001059

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷: A61K 35/20, 31/198; A61P 31/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
SEE DATABASES BELOW

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
DWPI, MEDLINE: Keywords used - colostrum, lactoferrin, hyperimmune milk, foremilk, mucolytic, expectorant, acetylcysteine, bacteria, helicobacter, H.pylori, bacteria, ulcer, mucosa, carbocysteine, bromhexine, infection, colonisation, inflammation

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| X | EP 1055720 B1 (JOHNSON & JOHNSON CONSUMER COMPANIES, INC.) 29 November 2000. See entire document, especially page 3, lines 3-41; claims. | 54-65 |
| X | US 6468965 B1 (CUTLER, P.) 22 October 2002. See entire document, especially claims. | 54-65 |
| Y | DI MARIO, F. et al. Use of lactoferrin for <i>Helicobacter pylori</i> eradication. J. Clin. Gastroenterol. 2003 (May-June), Vol. 36, No. 5, pages 396-398. See entire document. | 1-65 |

Further documents are listed in the continuation of Box C See patent family annex

| | | |
|---|-----|--|
| * Special categories of cited documents: | | |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "B" earlier application or patent but published on or after the international filing date | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" | document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "O" document referring to an oral disclosure, use, exhibition or other means | "&" | document member of the same patent family |
| "P" document published prior to the international filing date but later than the priority date claimed | | |

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| Date of the actual completion of the international search 14 September 2004 | Date of mailing of the international search report 23 SEP 2004 |
| Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaaustralia.gov.au Facsimile No. (02) 6285 3929 | Authorized officer JULIE KNEESHAW Telephone No : (02) 6283 2748 |

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|---|---|-----------------------|
| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | CASSWALL, T.H. et al. Bovine anti- <i>Helicobacter pylori</i> antibodies for oral immunotherapy. Scand. J. Gastroenterol. 2002, Vol. 12, pages 1380-1385. See entire document. | 1-65 |
| Y | KORHONEN, H. et al. Bovine milk antibodies for health. British Journal of Nutrition. 2000, Vol. 84, Suppl. 1, pages S135-S146. See entire document. | 1-65 |
| Y | GOTOH, A. et al. Additive effect of pronase on the efficacy of eradication therapy against <i>Helicobacter pylori</i> . 2002, Vol. 7, pages 183-191. See entire document. | 1-65 |
| Y | ZALA, G. et al. N-acetylcysteine improves eradication of <i>Helicobacter pylori</i> by omeprazole/amoxicillin in cigarette smokers. 1994, Vol. 124, pages 1391-1397.. See entire document. | 1-65 |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001059

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Patent Document Cited in Search Report | | Patent Family Member | | | | | |
|---|---------|----------------------|---------|----|------------|----|------------|
| EP | 1055720 | AU | 3780000 | BR | 0003780 | CA | 2309520 |
| | | CN | 1284327 | JP | 2001011441 | US | 2002123460 |

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX